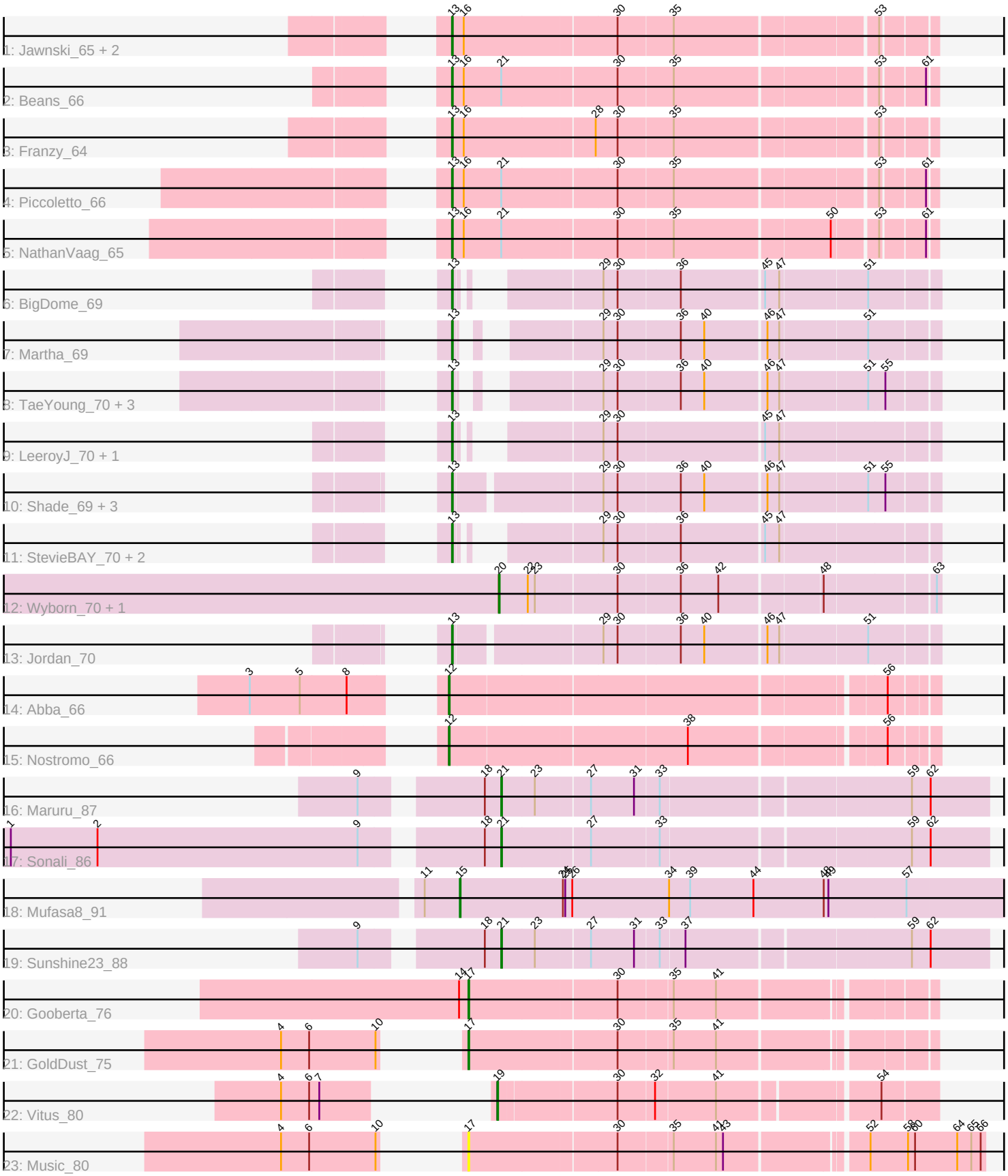
# Pham 347847


1: Jawnski_65 + 2
2: Beans_66
3: Franzy_64
4: Piccoletto_66
5: NathanVaag_65
6: BigDome_69
7: Martha_69
8: TaeYoung_70 + 3
9: LeeroyJ_70 + 1
10: Shade_69 + 3
11: StevieBAY_70 + 2
12: Wyborn_70 + 1
13: Jordan_70
14: Abba_66
15: Nostromo_66
16: Maruru_87
17: Sonali_86
18: Mufasa8_91
19: Sunshine23_88
20: Gooberta_76
21: GoldDust_75
22: Vitus_80
23: Music_80

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

# Pham 347847 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347847 has 35 members, 1 are drafts.

Phages represented in each track:
- Track 1 : Jawnski_65, King2_64, Brent_66
- Track 2 : Beans_66
- Track 3 : Franzy_64
- Track 4 : Piccoletto_66
- Track 5 : NathanVaag_65
- Track 6 : BigDome_69
- Track 7 : Martha_69
- Track 8 : TaeYoung_70, JKerns_69, Grekaycon_70, BossLady_71
- Track 9 : LeeroyJ_70, Timinator_70
- Track 10 : Shade_69, Sonny_69, Zartrosa_71, Pippa_70
- Track 11 : StevieBAY_70, BarretLemon_69, GravityBall_69
- Track 12 : Wyborn_70, Sicarius2_71
- Track 13 : Jordan_70
- Track 14 : Abba_66
- Track 15 : Nostromo_66
- Track 16 : Maruru_87
- Track 17 : Sonali_86
- Track 18 : Mufasa8_91
- Track 19 : Sunshine23_88
- Track 20 : Gooberta_76
- Track 21 : GoldDust_75
- Track 22 : Vitus_80
- Track 23 : Music_80

***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 13, it was called in 23 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- BarretLemon_69, Beans_66, BigDome_69, BossLady_71, Brent_66, Franzy_64, GravityBall_69, Grekaycon_70, JKerns_69, Jawnski_65, Jordan_70, King2_64, LeeroyJ_70, Martha_69, NathanVaag_65, Piccoletto_66, Pippa_70, Shade_69, Sonny_69, StevieBAY_70, TaeYoung_70, Timinator_70, Zartrosa_71,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• Abba_66, GoldDust_75, Gooberta_76, Maruru_87, Mufasa8_91, Music_80, Nostromo_66, Sicarius2_71, Sonali_86, Sunshine23_88, Vitus_80, Wyborn_70,

**Summary by start number:**

Start 12:
• Found in 2 of 35 ( 5.7% ) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_66 (AO3), Nostromo_66 (AO3),

Start 13:
• Found in 23 of 35 ( 65.7% ) of genes in pham
• Manual Annotations of this start: 23 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarretLemon_69 (AO2), Beans_66 (AO1), BigDome_69 (AO2), BossLady_71 (AO2), Brent_66 (AO1), Franzy_64 (AO1), GravityBall_69 (AO2), Grekaycon_70 (AO2), JKerns_69 (AO2), Jawnski_65 (AO1), Jordan_70 (AO2), King2_64 (AO1), LeeroyJ_70 (AO2), Martha_69 (AO2), NathanVaag_65 (AO1), Piccoletto_66 (AO1), Pippa_70 (AO2), Shade_69 (AO2), Sonny_69 (AO2), StevieBAY_70 (AO2), TaeYoung_70 (AO2), Timinator_70 (AO2), Zartrosa_71 (AO2),

Start 15:
• Found in 1 of 35 ( 2.9% ) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mufasa8_91 (FG),

Start 17:
• Found in 3 of 35 ( 8.6% ) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GoldDust_75 (FL), Gooberta_76 (FL), Music_80 (FL),

Start 19:
• Found in 1 of 35 ( 2.9% ) of genes in pham
• Manual Annotations of this start: 1 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vitus_80 (FL),

Start 20:
• Found in 2 of 35 ( 5.7% ) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sicarius2_71 (AO2), Wyborn_70 (AO2),

Start 21:
• Found in 6 of 35 ( 17.1% ) of genes in pham
• Manual Annotations of this start: 3 of 34
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Maruru_87 (FG), Sonali_86 (FG), Sunshine23_88 (FG),

**Summary by clusters:**

There are 5 clusters represented in this pham: AO3, FL, AO2, AO1, FG,

Info for manual annotations of cluster AO1:
•Start number 13 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 13 was manually annotated 16 times for cluster AO2.
•Start number 20 was manually annotated 2 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 12 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster FG:
•Start number 15 was manually annotated 1 time for cluster FG.
•Start number 21 was manually annotated 3 times for cluster FG.

Info for manual annotations of cluster FL:
•Start number 17 was manually annotated 2 times for cluster FL.
•Start number 19 was manually annotated 1 time for cluster FL.

***Gene Information:***

Gene: Abba_66 Start: 41901, Stop: 42479, Start Num: 12
Candidate Starts for Abba_66:
(3, 41721), (5, 41784), (8, 41841), (Start: 12 @41901 has 2 MA's), (56, 42423),

Gene: BarretLemon_69 Start: 44545, Stop: 45120, Start Num: 13
Candidate Starts for BarretLemon_69:
(Start: 13 @44545 has 23 MA's), (29, 44716), (30, 44734), (36, 44809), (45, 44911), (47, 44929),

Gene: Beans_66 Start: 44464, Stop: 45042, Start Num: 13
Candidate Starts for Beans_66:
(Start: 13 @44464 has 23 MA's), (16, 44479), (Start: 21 @44527 has 3 MA's), (30, 44668), (35, 44737), (53, 44980), (61, 45031),

Gene: BigDome_69 Start: 44829, Stop: 45359, Start Num: 13
Candidate Starts for BigDome_69:
(Start: 13 @44829 has 23 MA's), (29, 44955), (30, 44973), (36, 45048), (45, 45150), (47, 45168), (51, 45276),

Gene: BossLady_71 Start: 45159, Stop: 45689, Start Num: 13
Candidate Starts for BossLady_71:

(Start: 13 @45159 has 23 MA's), (29, 45285), (30, 45303), (36, 45378), (40, 45408), (46, 45483), (47, 45498), (51, 45606), (55, 45627),

Gene: Brent_66 Start: 44549, Stop: 45127, Start Num: 13
Candidate Starts for Brent_66:
(Start: 13 @44549 has 23 MA's), (16, 44564), (30, 44753), (35, 44822), (53, 45065),

Gene: Franzy_64 Start: 44565, Stop: 45143, Start Num: 13
Candidate Starts for Franzy_64:
(Start: 13 @44565 has 23 MA's), (16, 44580), (28, 44742), (30, 44769), (35, 44838), (53, 45081),

Gene: GoldDust_75 Start: 47538, Stop: 48089, Start Num: 17
Candidate Starts for GoldDust_75:
(4, 47406), (6, 47442), (10, 47526), (Start: 17 @47538 has 2 MA's), (30, 47721), (35, 47787), (41, 47841),

Gene: Gooberta_76 Start: 48265, Stop: 48816, Start Num: 17
Candidate Starts for Gooberta_76:
(14, 48253), (Start: 17 @48265 has 2 MA's), (30, 48448), (35, 48514), (41, 48568),

Gene: GravityBall_69 Start: 44845, Stop: 45375, Start Num: 13
Candidate Starts for GravityBall_69:
(Start: 13 @44845 has 23 MA's), (29, 44971), (30, 44989), (36, 45064), (45, 45166), (47, 45184),

Gene: Grekaycon_70 Start: 45072, Stop: 45602, Start Num: 13
Candidate Starts for Grekaycon_70:
(Start: 13 @45072 has 23 MA's), (29, 45198), (30, 45216), (36, 45291), (40, 45321), (46, 45396), (47, 45411), (51, 45519), (55, 45540),

Gene: JKerns_69 Start: 45051, Stop: 45626, Start Num: 13
Candidate Starts for JKerns_69:
(Start: 13 @45051 has 23 MA's), (29, 45222), (30, 45240), (36, 45315), (40, 45345), (46, 45420), (47, 45435), (51, 45543), (55, 45564),

Gene: Jawnski_65 Start: 44074, Stop: 44652, Start Num: 13
Candidate Starts for Jawnski_65:
(Start: 13 @44074 has 23 MA's), (16, 44089), (30, 44278), (35, 44347), (53, 44590),

Gene: Jordan_70 Start: 45176, Stop: 45751, Start Num: 13
Candidate Starts for Jordan_70:
(Start: 13 @45176 has 23 MA's), (29, 45347), (30, 45365), (36, 45440), (40, 45470), (46, 45545), (47, 45560), (51, 45668),

Gene: King2_64 Start: 44610, Stop: 45188, Start Num: 13
Candidate Starts for King2_64:
(Start: 13 @44610 has 23 MA's), (16, 44625), (30, 44814), (35, 44883), (53, 45126),

Gene: LeeroyJ_70 Start: 44774, Stop: 45304, Start Num: 13
Candidate Starts for LeeroyJ_70:
(Start: 13 @44774 has 23 MA's), (29, 44900), (30, 44918), (45, 45095), (47, 45113),

Gene: Martha_69 Start: 45008, Stop: 45538, Start Num: 13
Candidate Starts for Martha_69:

(Start: 13 @45008 has 23 MA's), (29, 45134), (30, 45152), (36, 45227), (40, 45257), (46, 45332), (47, 45347), (51, 45455),

Gene: Maruru_87 Start: 52831, Stop: 53424, Start Num: 21
Candidate Starts for Maruru_87:
(9, 52684), (18, 52810), (Start: 21 @52831 has 3 MA's), (23, 52873), (27, 52939), (31, 52993), (33, 53023), (59, 53326), (62, 53350),

Gene: Mufasa8_91 Start: 53065, Stop: 53769, Start Num: 15
Candidate Starts for Mufasa8_91:
(11, 53020), (Start: 15 @53065 has 1 MA's), (24, 53197), (25, 53200), (26, 53209), (34, 53332), (39, 53359), (44, 53440), (48, 53530), (49, 53536), (57, 53635),

Gene: Music_80 Start: 47968, Stop: 48591, Start Num: 17
Candidate Starts for Music_80:
(4, 47836), (6, 47872), (10, 47956), (Start: 17 @47968 has 2 MA's), (30, 48151), (35, 48217), (41, 48271), (43, 48280), (52, 48445), (58, 48493), (60, 48502), (64, 48556), (65, 48574), (66, 48586),

Gene: NathanVaag_65 Start: 44298, Stop: 44876, Start Num: 13
Candidate Starts for NathanVaag_65:
(Start: 13 @44298 has 23 MA's), (16, 44313), (Start: 21 @44361 has 3 MA's), (30, 44502), (35, 44571), (50, 44763), (53, 44814), (61, 44865),

Gene: Nostromo_66 Start: 42650, Stop: 43228, Start Num: 12
Candidate Starts for Nostromo_66:
(Start: 12 @42650 has 2 MA's), (38, 42941), (56, 43172),

Gene: Piccoletto_66 Start: 44460, Stop: 45038, Start Num: 13
Candidate Starts for Piccoletto_66:
(Start: 13 @44460 has 23 MA's), (16, 44475), (Start: 21 @44523 has 3 MA's), (30, 44664), (35, 44733), (53, 44976), (61, 45027),

Gene: Pippa_70 Start: 45043, Stop: 45573, Start Num: 13
Candidate Starts for Pippa_70:
(Start: 13 @45043 has 23 MA's), (29, 45169), (30, 45187), (36, 45262), (40, 45292), (46, 45367), (47, 45382), (51, 45490), (55, 45511),

Gene: Shade_69 Start: 44814, Stop: 45389, Start Num: 13
Candidate Starts for Shade_69:
(Start: 13 @44814 has 23 MA's), (29, 44985), (30, 45003), (36, 45078), (40, 45108), (46, 45183), (47, 45198), (51, 45306), (55, 45327),

Gene: Sicarius2_71 Start: 43199, Stop: 43729, Start Num: 20
Candidate Starts for Sicarius2_71:
(Start: 20 @43199 has 2 MA's), (22, 43235), (23, 43244), (30, 43343), (36, 43421), (42, 43469), (48, 43592), (63, 43724),

Gene: Sonali_86 Start: 53450, Stop: 54043, Start Num: 21
Candidate Starts for Sonali_86:
(1, 52859), (2, 52970), (9, 53303), (18, 53429), (Start: 21 @53450 has 3 MA's), (27, 53558), (33, 53642), (59, 53945), (62, 53969),

Gene: Sonny_69 Start: 44737, Stop: 45312, Start Num: 13

Candidate Starts for Sonny_69:
(Start: 13 @44737 has 23 MA's), (29, 44908), (30, 44926), (36, 45001), (40, 45031), (46, 45106), (47, 45121), (51, 45229), (55, 45250),

Gene: StevieBAY_70 Start: 45067, Stop: 45597, Start Num: 13
Candidate Starts for StevieBAY_70:
(Start: 13 @45067 has 23 MA's), (29, 45193), (30, 45211), (36, 45286), (45, 45388), (47, 45406),

Gene: Sunshine23_88 Start: 53186, Stop: 53779, Start Num: 21
Candidate Starts for Sunshine23_88:
(9, 53039), (18, 53165), (Start: 21 @53186 has 3 MA's), (23, 53228), (27, 53294), (31, 53348), (33, 53378), (37, 53408), (59, 53681), (62, 53705),

Gene: TaeYoung_70 Start: 44980, Stop: 45510, Start Num: 13
Candidate Starts for TaeYoung_70:
(Start: 13 @44980 has 23 MA's), (29, 45106), (30, 45124), (36, 45199), (40, 45229), (46, 45304), (47, 45319), (51, 45427), (55, 45448),

Gene: Timinator_70 Start: 44887, Stop: 45417, Start Num: 13
Candidate Starts for Timinator_70:
(Start: 13 @44887 has 23 MA's), (29, 45013), (30, 45031), (45, 45208), (47, 45226),

Gene: Vitus_80 Start: 46317, Stop: 46829, Start Num: 19
Candidate Starts for Vitus_80:
(4, 46197), (6, 46233), (7, 46245), (Start: 19 @46317 has 1 MA's), (30, 46458), (32, 46503), (41, 46578), (54, 46764),

Gene: Wyborn_70 Start: 43934, Stop: 44464, Start Num: 20
Candidate Starts for Wyborn_70:
(Start: 20 @43934 has 2 MA's), (22, 43970), (23, 43979), (30, 44078), (36, 44156), (42, 44204), (48, 44327), (63, 44459),

Gene: Zartrosa_71 Start: 45067, Stop: 45642, Start Num: 13
Candidate Starts for Zartrosa_71:
(Start: 13 @45067 has 23 MA's), (29, 45238), (30, 45256), (36, 45331), (40, 45361), (46, 45436), (47, 45451), (51, 45559), (55, 45580),